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(by Assignee)



Attorney's Docket No. P7025.06 CIP 5

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

☒ In re application of: Middleman et al

Serial No.: 08 / 390,629

Group No.: 3307

Filed: March 3, 1995

Examiner: Hiltten, J.

For*: DEVICE OR APPARATUS FOR MANIPULATING MATTER

☐ Patent No:

Issued:

*NOTE: Insert name(s) of inventor(s) and title also for patent.

Assistant Commissioner for Patents
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the entire interest of the above identified

☒ application,

☐ patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following attorney(s) and/or agent(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Harold R. Patton, Reg. No. 22,157	(list name and registration number)	Curtis D. Kinghorn, Reg. No. 33,926
Reed A. Duthler, Reg. No. 30,626		Thomas F. Woods, Reg. No. 36,726
Daniel W. Latham, Reg. No. 30,401		Peter Forrest, Reg. No. 33,235
Michael B. Atlas, Reg. No. 30,606		
Dianne M.F. Plunkett, Reg. No. 35,649		
Michael J. Jaro, Reg. No. 34,472		

(check the following item, if applicable)

☐ Attached, as part of this power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO:

Daniel W. Latham
MEDTRONIC, INC.
7000 Central Avenue N.E.
Minneapolis, Minnesota 55432

DIRECT TELEPHONE CALLS TO:

612/574-3278
(fax) 612/574-3233

Medtronic, Inc.

(type or print identity of assignee of entire interest)

7000 Central Avenue N.E.

Address

Minneapolis, Minnesota 55432

- ☒ Executed on October 4, 1996 and filed with PTO October 17, 1996
☐ Recorded in PTO on _____
 Reel _____
 Frame _____
☐ Recorded herewith

ASSIGNEE CERTIFICATION

Attached to this power is a "CERTIFICATE UNDER 37 CFR 3.73(b)."

Date

November 4, 1996


Signature

Harold R. Patton

(type or print name of person authorized to
sign on behalf of assignee)

Vice President and Chief Patent Counsel

Title

NOTE: The assignee of the entire interest may revoke previous powers and be represented by an attorney of his or her selection. 37 CFR 1.36.

(check the following item, if it forms a part of this power of attorney)

- ☐ Added page—Authorization of attorney(s) to accept and follow instructions from representative.

(Power of Attorney by Assignee of Entire Interest [12-2]—page 2 of 2)

9165.02A
8-1-85

PATENT ASSIGNMENT

STATE OF : California

ss

COUNTY OF : San Mateo

WHEREAS Raychem Corporation ("Assignor"), a Delaware corporation with offices at 300 Constitution Drive, Menlo Park, California, 94025-1164, is the owner of the entire right, title, and interest to: the Patents listed on the attached Exhibit A (the "Patents"); the applications for Patents listed on the attached Exhibit B (the "Patent Applications"); and the inventions covered by the Patents and the Patent Applications (the "Inventions");

AND WHEREAS Medtronic, Inc. ("Assignee"), a Minnesota corporation with offices at 7000 Central Avenue N.E., Minneapolis, Minnesota 55432, is desirous of acquiring the entire right, title, and interest in and to the Inventions in the United States and foreign countries and in and to the Patents and the Patent Applications;

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, Assignor hereby assigns and transfers to Assignee, its successors and assigns:

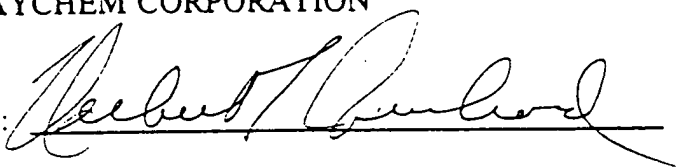
- (1) the entire right, title, and interest in and to the Inventions, the Patents and the Patent Applications;
- (2) the entire right, title and interest in and to any United States or foreign Patents which may issue with respect to the Inventions or the Patent Applications;
- (3) the entire right, title and interest in and to any renewals, reissues, divisions, substitutions, continuations, continuations-in-part and extensions of the Patents and that may be filed with respect to the Inventions and the Patent Applications;
- (4) all rights of action arising from the Patents and any patents that may issue with respect to Inventions and the Patent Applications, all claims for damages by reason of past infringement of the Patents and any patents that may issue with respect to the Inventions and the Patent Applications, and the right to sue and collect damages for such infringement, to be held and enjoyed by the Assignee for its own use and benefit and for its successors and assigns as the same would have been held by Assignor had this assignment not been made; and
- (5) the right to apply for patents in foreign countries in its own name and to claim any priority rights to which such foreign applications are entitled under international conventions, treaties or otherwise.

Assignor further agrees to execute and deliver without further consideration any applications, assignments or other documents and to perform such other lawful acts as Assignee, its successors and assigns may deem necessary to fully secure, maintain and enforce its rights, title or interest as outlined herein.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue to Assignee any Patents which may be granted in accordance with this Assignment.

Dated: October 4, 1996

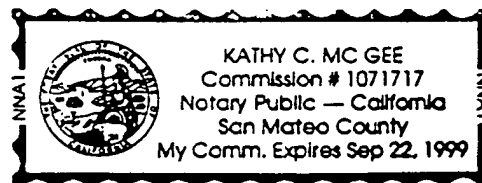
RAYCHEM CORPORATION

By: 

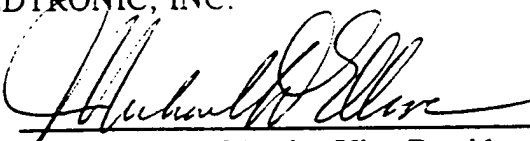
Title: Assistant Secretary

Subscribed and sworn to before me on October 4, 1996

Notary Public: Kathy C. McGee



MEDTRONIC, INC.

By: 
Michael D. Ellwein, Vice President, Corporate
Development and Associate General Counsel

Subscribed and sworn to before me on October 4, 1996

Notary Public: Laura J. Wolfe

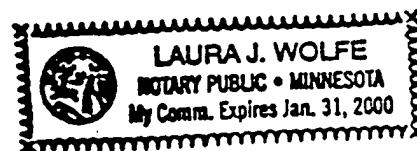


Exhibit A

Patents

Jurisdiction	Patent No.	Title	Inventor(s)	Issue Date
U.S.	4,665,906	Medical Devices Incorporating SIM Alloy Elements	Jervis	05/19/87
U.S.	5,067,957	Medical Devices Incorporating SIM Alloy Elements	Jervis	11/26/91
U.S.	5,190,546	Medical Devices Incorporating SIM Alloy Elements	Jervis	03/2/93
EPO	0 145 166	Medical Devices Incorporating SIM Alloy Elements	Jervis	12/13/89
Germany	3480686.5	Medical Devices Incorporating SIM Alloy Elements	Jervis	12/13/89
Japan	2543328	Medical Devices Incorporating SIM Alloy Elements	Jervis	07/25/96
Canada	1 246 956	Medical Devices Incorporating SIM Alloy Elements	Jervis	12/20/88
U.S.	4,759,748	Guiding Catheter	Reed	07/26/88
EPO	0 237 564	Guiding Catheter	Reed	12/11/91
Germany	3682897.1	Guiding Catheter	Reed	12/11/91
Canada	1 269 008	Guiding Catheter	Reed	05/15/90
Japan	2059735	Guiding Catheter	Reed	06/10/96
U.S.	4,483,338	Method for Making Bi-Polar Electrocautery Needle	Bloom et al	11/20/84
U.S.	4,566,183	Method for Making Bi-Polar Electrocautery Needle	Bloom et al	01/28/86
EPO	0 067 680	Method for Making Bi-Polar Electrocautery Needle	Bloom et al	11/28/84

Jurisdiction	Patent No.	Title	Inventor(s)	Issue Date
Great Britain	2 101 893	Method for Making Bi-Polar Electrocautery Needle	Bloom et al	04/24/85
Germany	3261365.2	Method for Making Bi-Polar Electrocautery Needle	Bloom et al	11/28/84
U.S.	5,509,923	Device for Dissecting, Grasping and Cutting an Object	Middleman et al	04/23/96
EPO	0 487 645	Device for Dissecting, Grasping and Cutting an Object	Middleman et al	12/13/95
Germany	69024219.0	Device for Dissecting, Grasping and Cutting an Object	Middleman et al	12/13/95
U.S.	5,002,563	Suture Utilizing Shape Memory Alloys	Pyka et al	03/26/91
EPO	0 516 720	Suture Utilizing Shape Memory Alloys	Pyka et al	12/27/95
Germany	69115892.4	Suture Utilizing Shape Memory Alloys	Pyka et al	12/27/95
U.S.	5,486,183	Device or Apparatus for Manipulating Matter	Middleman et al	01/23/96
Australia	664358	Device or Apparatus for Manipulating Matter	Middleman et al	03/05/96
U.S.	5,231,989	Steerable Cannula	Middleman et al	08/3/93
U.S.	5,345,937	Steerable Cannula	Middleman et al	09/13/94
U.S.	5,254,130	Surgical Device	Poncet	10/19/93
U.S.	4,425,919	Torque Transmitting Catheter Apparatus	Alston et al	01/17/84
U.S.	4,563,180	High Flow Catheter for Injecting Fluids	Jervis et al	01/7/86

Exhibit B
Patent Applications

Jurisdiction	Serial No.	Title	Inventor(s)	Application Date
U.S.	956,653	Medical Devices Incorporating SIM Alloy Elements	Jervis	10/2/92
U.S.	483,291	Medical Devices Incorporating SIM Alloy Elements	Jervis	06/7/95
Japan	215072/84	Medical Devices Incorporating SIM Alloy Elements	Jervis	10/12/84
Canada	2 064 830	Device for Dissecting, Grasping and Cutting an Object	Middleman et al	08/16/90
Japan	512977/90	Device for Dissecting, Grasping and Cutting an Object	Middleman et al	08/16/90
Canada	2 076 672	Suture Utilizing Shape Memory Alloys	Pyka et al	02/20/91
Japan	505130/91	Suture Utilizing Shape Memory Alloys	Pyka et al	02/20/91
U.S.	843,775	Device or Apparatus for Manipulating Matter	Middleman et al	02/28/92
U.S.	022,259	Device or Apparatus for Manipulating Matter	Middleman et al	02/24/93

Jurisdiction	Serial No.	Title	Inventor(s)	Application Date
U.S.	398,629	Device or Apparatus for Manipulating Matter	Middleman et al	03/03/95
U.S.	430,989	Device or Apparatus for Manipulating Matter	Middleman et al	04/27/95
U.S.	486,550	Device or Apparatus for Manipulating Matter	Middleman et al	06/07/95
U.S.	474,200	Device or Apparatus for Manipulating Matter	Middleman et al	06/07/95
U.S.	483,785	Device or Apparatus for Manipulating Matter	Middleman et al	06/07/95
EPO	91920098.0	Device or Apparatus for Manipulating Matter	Middleman et al	10/09/91
Australia	89181/91	Device or Apparatus for Manipulating Matter	Middleman et al	10/09/91
Japan	518471/91	Device or Apparatus for Manipulating Matter	Middleman et al	10/09/91
Canada	2,093,821	Device or Apparatus for Manipulating Matter	Middleman et al	10/09/91
EPO	92906952.4	Steerable Cannula	Middleman et al	02/14/92
Japan	506684/92	Steerable Cannula	Middleman et al	02/14/92
Canada	2101168	Steerable Cannula	Middleman et al	02/14/92

Jurisdiction	Serial No.	Title	Inventor(s)	Application Date
EPO	93911633.1	Surgical Device	Poncet	04/13/93
Australia	40491/93	Surgical Device	Poncet	04/13/93
Japan	518580/93	Surgical Device	Poncet	04/13/93
Korea	703637/94	Surgical Device	Poncet	04/13/93
Canada	2118006	Surgical Device	Poncet	04/13/93
U.S.	450,200	Stent Assembly and Method of Use	Poncet	05/25/95
PCT (EP, CA, JP)	US96/05902	Stent Assembly and Method of Use	Poncet	04/26/96
U.S.	474,613	Wound Closure Device	Poncet	06/7/95
PCT (EP, CA, JP)	US96/07318	Wound Closure Device	Poncet	05/20/96